

## Protection classes according to DIN VDE 0470 part 1/EN 60 529

The IP code can be used to describe the performance of different screw connections according to a standardised system. The first code number indicates protection against contact or foreign bodies and the second code number indicates protection against water.

Protection type	mechanical protection First code number		Water protection Second code number
	Touch protection	Foreign body protection	Water protection
<b>IP 0</b>	No touch protection	No protection against solid foreign objects	No protection
<b>IP 1</b>	Protection against large-area contact with the hand	Protection against large solid foreign objects	Protection against vertically falling dripping water
<b>IP 2</b>	Protection against touch with the fingers	Protection against medium, solid foreign bodies	Protection against liquid drops, even with inclinations up to 60° from the vertical
<b>IP 3</b>	Protection against contact with tools, wires or similar over 2,5 mm thickness	Protection against small solid foreign objects	Protection against spray water, even on slopes up to 60° from the vertical
<b>IP 4</b>	Protection against contact with tools, wires or similar over 1 mm thickness	Protection against small solid foreign objects	Protection against splash water from all directions
<b>IP 5</b>	Protection against contact with aids of any kind	Protection against irritating dust deposits indoors	Protection against water jets from all directions
<b>IP 6</b>	Protection against contact with aids of any kind	Complete protection dustproof	Protection against temporary flooding (on deck)
<b>IP 7</b>	–	–	Protection against submersion in water
<b>IP 8</b>	–	–	Protection against pressure water